Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 15-08-18

Lab ID	:	**CP-2018-08-13-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-06 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	13-08-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	203	357	35.7	64.3	30-70	55-90	75-100	90-100
5	600 micron	231	588	58.8	41.2	15-34	35-59	60-79	80-100
6	300 micron	251	839	83.9	16.1	5-20	8-30	12-40	15-50
7	150 micron	125	964	96.4	3.6	0-10	0-10	0-10	0-15
8	Pan	36	1000	100.0	0.0	—	—	—	—

Result :The tested Sample Conforms to Grading Zone II

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Certificate No: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-08-13-06**

Sample ID No : 2018-08-13-06 /03 **Date: 15-08-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.26	-
2	Specific Gravity	2.54	-
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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TEST RESULTS OF STEEL

Format No: CP/TF/01

Lab ID	:	**CP-2018-08-13-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. **Date: 15-08-18**
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-06 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	14-08-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	533	639	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	548	662	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	562	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID	:	**CP-2018-08-13-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. **Date: 18-08-18**
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-18
Sample ID No	:	2018-08-13-06 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	14/08/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-23-06

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore

Date: 27/08/2018

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No 14(Bagalagunte)

Agency : Technical Manager West, K R I I I , Project Implementation Unit, No 280, 59th Cross, 17th C Main road, 3rd T Block, Rajajinagar, Bangalore 560010

Customer's Reference : BBMP/EE/DD/WC/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-08-18

Sample ID No : 2018-08-23-06 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2018

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/08/2018	27/08/2018	149.77 X 150.22 X 151.98	22498	8.198	384.7	17.1	17.1
3	Drain Concrete	M20	20/08/2018	27/08/2018	150.31 X 150.11 X 150.71	22563	8.164	376.8	16.7	
5	Drain Concrete	M20	20/08/2018	27/08/2018	149.87 X 150.63 X 150.23	22575	8.145	392.8	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 17/09/2018

Lab ID	:	**CP-2018-08-23-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-06 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/08/2018	17/09/2018	151.22 X 150.47 X 150.97	22754	8.165	541.5	23.8	23.9
2	Drain Concrete	M20	20/08/2018	17/09/2018	150.98 X 150.47 X 150.66	22718	8.144	547.5	24.1	
3	Drain Concrete	M20	20/08/2018	17/09/2018	150.73 X 150.99 X 150.35	22759	8.147	541.7	23.8	

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Certificate No.: TC- 8548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/08/2018

Lab ID	:	**CP-2018-08-23-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-06 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/08/2018	27/08/2018	150.77 X 150.94 X 150.36	22757	8.195	411.9	18.1	17.7
2	Drain Concrete	M20	20/08/2018	27/08/2018	150.49 X 150.72 X 150.66	22682	8.132	394.7	17.4	
3	Drain Concrete	M20	20/08/2018	27/08/2018	150.87 X 150.49 X 150.78	22704	8.199	401.9	17.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/09/2018

Lab ID	:	**CP-2018-08-23-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-06 /04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/08/2018	17/09/2018	150.44 X 151.74 X 150.29	22828	8.197	518.2	22.7	23.3
2	Drain Concrete	M20	20/08/2018	17/09/2018	150.37 X 150.61 X 150.46	22647	8.199	523.2	23.1	
3	Drain Concrete	M20	20/08/2018	17/09/2018	150.47 X 150.66 X 150.19	22670	8.108	546.3	24.1	

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